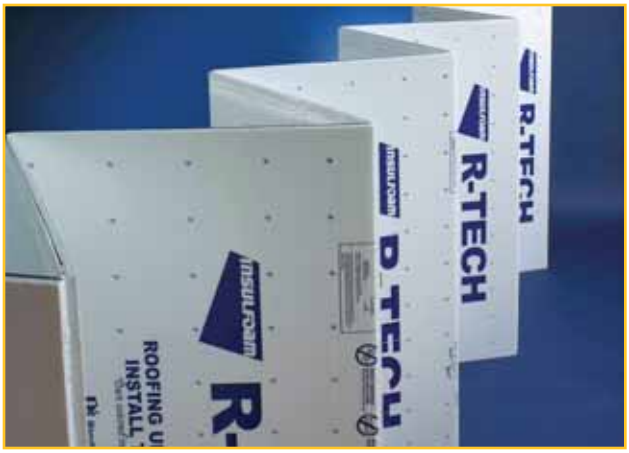
CARLISLE'S

# R-Tech® Fanfold Recover Board




## Overview

R-Tech Fanfold Recover Board is a high-performance, rigid insulation consisting of a superior closed-cell, lightweight and resilient expanded polystyrene (EPS) with advanced polymeric laminate facers. R-Tech is available with factory-adhered metallic-reflective facers, white facers or a combination of the two. The EPS core of R-Tech Fanfold Recover Board meets or exceeds the requirements of ASTM C578, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation. R-Tech Fanfold Recover Board has excellent dimensional stability, compressive strength and water-resistant properties. R-Tech Fanfold Recover Board is an ENERGY STAR®-qualified insulation and can contribute toward LEED® certification credits.

R-Tech Fanfold Recover Board is manufactured by Insulfoam, a division of Carlisle Construction Materials Incorporated with nine manufacturing facilities in North America.

## Features and Benefits

- Laborsaving, accordion-style fanfold product allows installers to carry 400 square feet at one time versus 13 sheets of conventional 4´ x 8´ cover board
- Reduced fastening patterns and lightweight handling reduces labor costs by 50%
- Water-resistant cover board does not break down like alternative cover boards if leaks occur
- Reduces installed costs compared to wood fiber or gypsum by 40% to 60%
- Unique polymeric laminate facers permit PVC to be used without slip sheets
- Metallic facer permits usage under mechanically fastened EPDM in northern locations (Contact Carlisle Design Services for guidance.)
- Convenient access with stocking at Insulfoam manufacturing facilities as well as Carlisle membrane production facilities
- UL code approval for numerous recover applications
- Approximately 8x higher R-value than ½˝ gypsum cover boards and 3x higher R-value than ½˝ wood fiber boards

## Product Characteristics

- Panel thickness: ½˝
- Panel density: 1 psf
- Bundle size: 4´ x 50´ (200 ft.²)

## Applications

R-Tech Fanfold Recover Board is designed as a recovery board for numerous commercial and industrial re-roofing applications.

## Installation

**Loose Laid**

Install R-Tech Fanfold Recover Board with continuous side joints, and end joints staggered so they are offset by a minimum of 12˝ from the end joints in adjacent rows. R-Tech Fanfold Recover Board should abut tightly against adjacent boards. Joints greater than ½˝ should be filled with the same insulation that is being used in the field of the roof. If R-Tech Fanfold Recover Board is being installed over an existing layer of insulation, all joints must be offset a minimum of 6˝ between layers.

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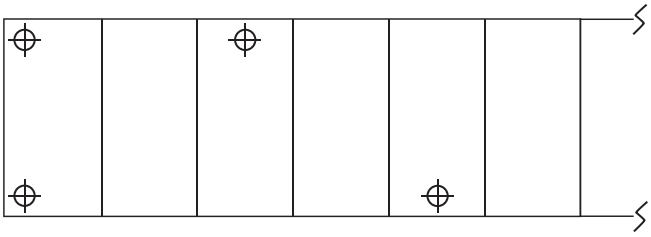
**Mechanically Attached**

Install R-Tech Recover Board with continuous side joints, and end joints staggered so they are offset by a minimum of 12″ from the end joints in adjacent rows. Insulation should abut tightly against adjacent boards. Joints greater than ½″ should be filled with the same insulation that is being used in the field of the roof. If R-Tech Fanfold Recover Board is being installed over an existing layer of insulation, all joints must be offset a minimum of 6″ between layers. Use an approved mechanical fastener of sufficient length to penetrate into or through the deck by the amount prescribed for the specific fastener. Fasteners should never be closer than 6″ from the edges of the insulation board, and should be placed in a pattern to achieve the desired approval. Use appropriate insulation plates with the fasteners. Care must be taken to avoid over-driving or under-driving the fastener and plate assembly.

## Carlisle-Approved Fastening Pattern



## R-Tech Fanfold Recover Board Typical Physical Properties

| Property | | Test Method | Value |
|---|---|---|---|
| Nominal Density (pcf) | | ASTM C303 | 1.25 |
| C-Value (Conductance) BTU / (hr • ft² • °F) | | | |
| (per inch) | @25°F<br>@40°F<br>@75°F | ASTM C518<br>or<br>ASTM C177 | .22<br>.24<br>.26 |
| R-Value (Thermal Resistance) (hr • ft² • °F) / BTU | | | |
| (per inch) | @25°F<br>@40°F<br>@75°F | ASTM C518<br>or<br>ASTM C177 | 4.54<br>4.25<br>3.92 |
| Compressive Strength (psi, 10% deformation) | | ASTM D1621 | 16 |
| Flexural Strength (psi) | | ASTM C203 | 40 |
| Dimensional Stability (maximum %) | | ASTM D2126 | < 2% |
| Water Vapor Transmission (perms) | | ASTM E96 | < 1.0 |
| Absorption (% vol.) | | ASTM C272 | < 1.0 |
| Capillarity | | — | none |
| Flame Spread | | ASTM E84 | < 20 |
| Smoke Developed | | ASTM E84 | 150 – 300 |

## LEED Info

| | |
|---|---|
| Post-industrial Recycled Content | Up to to 25% |
| Manufacturing Locations | Anchorage, AK<br>Kent, WA<br>Dixon, CA<br>Chino, CA<br>Phoenix, AZ<br>Salt Lake City, UT<br>Aurora, CO<br>Mead, NE<br>Lakeland, FL |



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